

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: "Marshall Emm" <mgemm@mtechnologies.com>
Subject: [18091] (repost) Special Offer, 73
Message-ID: <199704231821.MAA10771@lynx.csn.net>

As a sometime contributor to "73 amateur Radio Today" I have used all of my persuasive powers [g] to talk them into a special subscription deal EXCLUSIVELY FOR QRP-L members.

Say what you want about Wayne Greene's politics and editorials, I still think "73" has more useful information and projects for the HF and QRP enthusiast than any of the other national magazines. For example, ALL of these articles were in ONE issue (January '97):

A keyer project,
Mods for the Ramsey FX transceiver,
A receiver pre-amp project,
An comprehensive article on rechargeable batteries,
A pos/neg power supply project, and
An enhanced automatic voltage controller project.

There are a lot of useful regular features, too, including reviews by yours truly and a monthly QRP column by Michael Bryce, WB8VGE. For example, the current (May) issue includes my review of the Island Memory Keyer kit (written before I started selling them), and my review of the AT-11 Automatic Antenna Tuner is coming real soon now.

Here's the deal-- subscribe between now and May 31st, 1997 for \$19.97. That's a savings of \$5 over the normal price of \$24.97. Existing subscribers CAN renew or extend their subscriptions at that price, too.

To subscribe/renew/extend at the special price call 800-274-7373 and mention the QRP-L Special. Or write "QRP-L Special" on a subscription card from the magazine. Or send your check or money order to:
73 Magazine
70 Route 202 N
Peterborough, NH 03458

73
Marshall Emm
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<http://www.mtechnologies.com/mthome>
<http://www.mtechnologies.com/mthome>

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: "Jeff M. Gold" <JMG@tntech.edu>
Subject: [18106] 20 meter qrp transceiver for sale
Message-ID: <01II1UE0Q8G28WXZC8@tntech.edu>

I still have this for sale:

NW8020

this one was built from Dan's kit, with optional audia filter and RIT. it is in nuce unpainted aluminum case that is 7" w x 5.5" deep x 2.5" high. it has a pretty good size built in speaker and has on/off switch built into audio control

NW80/20 5 WATT CW TRANSCEIVER KIT:

THIS CW TRANSCEIVER KIT WAS DESIGNED BY ROY GREGSON W6EMT. THIS TRANSCEIVER KIT HAS A 4 POLE CRYSTAL FILTER, QSK, 5 WATTS "PLUS" OUTPUT, RIT IS INCLUDED ALSO INCLUDED IS THE OPTIONAL ACTIVE CRYSTAL FILTER .AIR VARIABLE WITH BUILT IN 8:1 REDUCTION AND THE 10K AUDIO POT.

puts out a solid 5 watts and works real well on DX. The audio filter does a great job on knocking out atmospheric noise and really narrows down width.

\$80 shipped us

72

Jeff, AC4HF

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: JFKluender@aol.com
Subject: [18050] 38S Tuning Range Results
Message-ID: <970422221556_-767765962@emout05.mail.aol.com>

Greetings fellow QRP'ers,

A few days ago I asked for help in shifting the tuning range of my stock-built 38S from (10.097-10.121) to some range which is centered higher (so that I am ALWAYS in band). Here is a summary of what I did, and why I need your help now. Please see my request at the end of this e-mail even if you choose not to read most of it - thanks!

(1) First tried winding a few turns of wire on the outside of the stock 4.7uH inductor. This moved the signal in the right direction, but only 1 kHz or so.

I decided that this wasn't the cleanest solution anyway...

(2) Next tried changing the 1N4004 diode. Went to Radio Shack, and got a grab bag with lots of 1N4004's. Most of them moved my range down, but one of them shifted the bottom of my range up to 10.099 - Oh, so close! I did not find one which shifted me up to 10.102, which is what I wanted. I left the "10.099 Mhz -producing diode" in, though.

(3) To further shift the frequency up, I put a 1 pF cap in series with the inductor. Bad idea! The bottom of the range did go up - way up, but the tuning range was < 10 kC - not acceptable.

(4) In the process of doing mod (3) I managed to rip one of the leads right out of the stock inductor. Now, it doesn't work at all (BIG SURPRISE, HUH?)

REQUEST:

DOES ANYONE HAVE AN EXTRA 4.7 uH, or slightly larger value, inductor of similar construction/Q as the ones in the 38S kit? I'm so close to the range I want, I'd like to try another 4.7 uH, hoping that the manufacturing variation might be enough to get me the extra couple of kC. If that doesn't work, I'm willing to go with a larger inductor, as some have suggested. That will move my frequency in the right direction, right??

If anyone has inductors I could buy off of you, I'd be happy to reimburse the cost of postage and component(s). I'd feel really silly doing a DigiKey order for just one or two components.

Thanks, and 73,
Joel Kluender NF9K

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: jbartac@max.state.ia.us (Jerry Bartachek)
Subject: [18094] 50/40/30 - Iowa - Day #2
Message-ID: <335E772D.62D6@max.state.ia.us>

I will be on for Iowa on Thursday 4/24/97 for the 2nd day of Iowa availability for the 50 states on 40 + 30 effort.

7 - 9 PM CDT: Look for me on 10.115 MHz, but if I'm getting the 5 to 6 KHz wide bands of QRN that I've been seeing at different spots in the 30 M band lately, look for me at 10.109. Check both QRG's.

9 - 11 PM CDT: I intend to be on 7039 KHz, but I may make some calls on 7112 on the half hour if I have difficulty on 7039. Mark did a good job Tuesday, and my effort may not be needed, but I will be there for anyone who wants to try. Will Rhode Island or Nebraska be there for me? Just

2 to go for W.A.S. QRP :-)

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Jerry L. Bartachek <><
Washington, IA

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: "Michael Connor" <mikec@primenet.com>
Subject: [18080] AADE Display/Thanks
Message-ID: <199704231609.JAA09404@usr07.primenet.com>

Gang,

Thanks to all who responded to my query about the
AADE digital display. All comments were very favorable.:-)

Mike
NQ7K
AZ ScQRPions

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: bachmann@ari.net
Subject: [18045] AADE's Digi Display
Message-ID: <199704230141.VAA24744@mtolympus.ari.net>

Hi mike,
Included is an email I sent to the list in January about the AADE counter. I
got it working and tuned up inside a GM-30 using a gimmick. Mr. Heckt may have
included a trimmer in the later kits but mine just had a fixed value. The
gimmick worked for me, but when I do it again, I'll use a trimmer.

Overall, I like it. The use of the PLL chip to get a high input impedance is
fb. It tuned up in the GM-30 alot easier than I expected. I'm not an expert,
but I don't think the multi-turn pots will drift after they find 'their spot'.
They tune in steps (i think the voltages from the pots are read by A/D
converter of some kind which quantizes a range of voltages to one step value),
so if you get in the middle of a step, the chance of the voltage drifting to a
boundary isn't all that likely.

I had intended to post a follow up, but the 38s came a few days after I posted the message below and I still haven't finished the GM-30 cabinet...and I'm still working on the 38S for Dayton.

All in all, it is a neat little digital display. If you use a trimmer of some sort, adjust the clock in the DFD so that the .1 khz digit flickers back and forth between two levels with a well calibrated input set to x.xxx050 MHz. Saying it another way, set the reference input (some accurate digital rig) to a boundary frequency and adjust the DFD clock with a trimmer so that it is flickering back and forth across the boundary frequency. Then, when you adjust the frequency in the rig so that the display is stable you'll be easily inside of 100 hz.

73, rich, N3SLR

<---- Begin Forwarded Message ---->

From: bachmann@ari.net

Subject: Using a gimmick to tune a frequency counter in a GM30

Hi gang,

Does anyone have experience using a gimmick to tune something up? I am trying to use about 3 inches of twisted #24 magnet wire with heat shrink on it to get between 10 and 15 pf (the exact value is what tunes the counter up properly). It looks like it will work, but I was wondering whether a gimmick is a stable capacitor and if there are pitfalls. It seems like a simple way to get a small, non-standard capacitance value but I can't find any references to it in electronics books. The major drawback is that it only adjust one way...if you cut it too short, you have to start over!

Background:

I am trying to put a frequency counter into a Green Mountain 30 rig. It is a neat little counter, made by Almost All Digital Electronics. With '10.0011 MHz CW' on the display it draws about 16 ma. It has four 15 turn pots. Two are for offset (coarse and fine) and control A/D converters giving a minimum step for the LO of 500 Hz. The third pot sets the contrast on the display. The fourth pot is for prescale applications. A fixed resistor is used to set the mode on the display (blank, USB, LSB, CW and others) according to a chart. There are two jumpers, one overrides the coarse and fine offset controls to force the offset to zero. The other is used to add or subtract the LO from the input frequency. It uses a CD74HC4046 Phase Lock Loop as the input device. I think it is just using phase comparator in the chip which has an input impedance of more than 100K. The rest of the circuit is the display, voltage regulator, and a PIC16C71. The circuit on the PIC that provides the timing is a PI circuit, a 16 MHz crystal is across the top of the PI, and 22pf NPO caps are the legs which go to ground. Pins 15 and 16 of the PIC connect across the top of the PI (in parallel with the crystal). This leads to the

problem: both of the capacitors are fixed, not allowing calibration of the counter circuit.

With offset set to zero and a 10.00000x MHz signal, the display reads '10.0023 MHz CW'. I pulled one of the 22 pf NPOs and it read 9.9967. It is right in the tuning range, it just needs a trimmer. I think the value needs to be about 13 pf. There is no easy way to put a trimmer on the component side, it is facing the back of the display and a right angle trimmer would have to be used. One could put the trimmer on the circuit side using the .1 spacing on the holes. Because there was no appropriate trimmer on hand, I decided to try a gimmick, about an 1 1/2 inches of twisted #24 wire. This pulled it up to 9.9989 MHz. A 3 inch one pulls it up to 10.0011. I put some heat shrink on it and hot glued it along the bottom edge of the board. This is where the project sits now.

The 500 Hz granularity of the offset adjustment and the fact that the IF is not at exactly 8 MHz complicates the calibration. I am going to try to calibrate it to the LO/IF of the GM30 by: 1.) tuning my signal source to 10.125000 2.) tuning the GM30 until I read 800 hz on an audio counter 3.) trim the gimmick until it reads 10.1250 (while checking what input frequency changes it to 10.1249 and 10.1251).

73, Rich Bachmann, N3SLR, Baltimore, MD
<---- End Forwarded Message ---->

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [18099] Advice: pulse noise reduction in auto environment
Message-ID: <Pine.3.89.9704231429.E17257-01000000@w3eax.umd.edu>

Obviously, some comes in thru the power cord. What would YOU recommend as being successful at wiping out noise from spark plugs, etc?

Wrapping the cord...around what material works best?

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 140 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: w8lrm@qtm.net
Subject: [18076] Centenial
Message-ID: <199704231533.LAA27123@garcon.qtm.net>

Anyone doing the group buy ???
Please let the list know.....

.....de....W8LRM.....A1

MI-QRP #41 QRP-L #532 QRP-ARCI #6524
G-QRP #4152 NOR-CAL #246 CQC #289 (EN62RE)
>From Southwest Michigans Sunset Coast:
Saint Joseph, Berrien County, Michigan !

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: "L. Jeffrey Hetherington" <jhetheri@freenet.npiec.on.ca>
Subject: [18051] Centennial SSB Rig Kit?
Message-ID: <Pine.SGI.3.93.970422221220.9883A-100000@freenet.npiec.on.ca>

Hi gang. I don't get to read all teh digests anymore due to restrictinos
on my time. Can somebody please send me some info on the Centennial SSB
Kit. Thanx.

73/72
Jeff - VA3JFF

=====
L. JEFFREY HETHERINGTON
Niagara Falls, Ontario, Canada
E-mail: L.Jeffrey.Hetherington@InternetAddress.com
Canadian QRP Award <http://www.geocities.com/Colosseum/2572/QRP.html>

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: ji3m@maxwell.com (James R. Duffey)
Subject: [18073] Closely Coupled Resonators (Parasitically-excited Parallel
Dipoles)
Message-ID: <v02130502af83d177ce59@[192.31.66.229]>

Keith - In answer to your question (statement ?);

"I deleted it, the reference to the parasitically-excited dipoles."

The best overall reference is "Closely Coupled Resonators" by Breed in
Antenna Compendium Vol. 5. It is easily accessible and has complete
information for design of any antenna of this type. These antennas are also

known as shunt excited antennas. The Antenna Handbook has a section on it.

I had the same idea as you have;

"Looking at the discussion on the C3 multi-band yagis, it appears that I could get a dual-band dipole, say for 40 & 20 by cutting a chunk of 450-ohm ladder-line for 40M, and cutting only the 40 Mtr "leg" for the coax. This should then drive the 20 Mtr leg via the mutual coupling."

"Does this sound right, or am I missing something here?"

It sounds right. You aren't missing anything. The article above will let you calculate the radiation resistance of the antenna on 20 M. I have done that and it may be higher than 50 ohms, but still in the right ball park.

I don't have any 450 Ohm Ladder line on hand now. Can you measure the spacing and wire diameter for me so I can verify my earlier calculations?

Keep in touch. I will let you know how things go on this end. You have inspired me to do something wiht my calculations. - KK6MC/5 Duffey

James R Duffey KK6MC/5 DM65
30 Casa Loma Road
Cedar Crest, NM 87008

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: FAITHD@dnr.state.wi.us (Don C. Faith III, AM/7, \((608\)) 267-3135)
Subject: [18062] Dan's Centennial 80m(75m) SSB errata
Message-ID: <009B33410B944E39.C86A@dnr.state.wi.us>

I am 3/4 or more along on my construction of Dan's kit of Paul's Centennial 75m SSB kit. I have found the following minor errors that need correction:

The spots on the board for C15, C18 (0.1 or 0.22 mf) and R18 (1K ohm?) are each missing one of the holes (I think these component numbers are correct but it is from memory - my notes are at home). Easily remedied with a #60 drill bit and drill.

At the back of the manual there is an addendum to use 5.6 and 56 ohm resistors in place of 10 and 100 ohm resistors in one of the output

stages: Dan has included these; look for them and flag your manual or board before you start soldering. I faked it by adding 15 and 150 ohm resistors across the 10 and 100 ohm ones before I noticed that Dan had already included the needed values.

Dan has provided the 0.22 mf mono caps listed as an alternative but they don't fit as well: After I had already put in 0.1 mono's from my junkie box, Dan provided an obvious solution: For the larger 0.22 mono's, solder them in 'vertically' or at a slight angle by bending one lead down/back so it is parallel to the opposing lead.

The kit instructions specify a 1N4001 diode but came w/ a 1N4002: For this application Dan indicated that almost any 1N400x will work (i.e. 1 - 7).

The manual's parts list omits the 6 100pf NPO capacitors that are described in the step by step instructions (thus Dan omitted them too): Dan indicated that he will be sending these out to everyone that has the kits.

Though included on the parts list, the instructions do not include the steps for soldering in the final output filter capacitors: C58, C59 (820 pf) and C60 (1500? pf). Part of the problem is that the manual also used some of these same numbers for the 100 pf NPO's in the step by step (pg 8).

Haven't tried soldering it yet but the kit includes a teenie little MAR-3 amp(?). May want to try holding down one or two of the legs w/ a piece of tape prior to soldering the first leg. Since the legs perpendicular to the dot/bevel marked leg are both grounded, it doesn't matter which side is up: Just be sure the leg w/ the dot goes to the trace marked "dot".

Hope this helps everyone trying the kit. Dan said he will drill the needed holes in the boards he has in stock and will obviously be including the 100 pf NPO's.

No association w/ Dan's (other than that of being a satisfied customer w/ lots of the parts in my junkie box(es) purchased from Dan's).

73 (es 72) de N9WR, Don C. Faith

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: FAITHD@dnr.state.wi.us (Don C. Faith III, AM/7, \608\ 267-3135)
Subject: [18064] Dan's Centennial SSB errata errata
Message-ID: <009B334225B7C899.C86A@dnr.state.wi.us>

My recollection is that the output filter capacitor (1500? pf) should have been C61 (not C60). Main point is to be sure to solder it in!

73 (es 72) de N9WR, Don C. Faith III

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: Jerry Parker <jparker@fix.net>
Subject: [18061] Dan's Deals on the Centennial
Message-ID: <2.2.32.19970423071544.006e78ac@fix.net>

Dan of Dan's Small Parts and Kits is going all out with his Centennial SSB QRP Kits.

He has just posted to the Web Quantity Buy Discounts, Mini-Kits, Bare Bones Kits.

<http://www.fix.net/dans.html>

Check it out,,,72,,,Jerry...K

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: Steve Slavsky <sslavsky@CapAccess.org>
Subject: [18075] Destructive Program Alert
Message-ID: <Pine.SUN.3.91-FP.970423112001.2997D-100000@cap1.capaccess.org>

This was received from an official DoD computer administrator. It does not concern the original AOL4FREE hoax, but a trojan horse program that is being sent on the internet and has been received at DoD locations. Be advised that this one is real and dangerous and can do serious damage to our computers (no more QRP-L posts).

72/73,

Steve, N4EUK
Reston, VA

All OUSD A&T PC Users:

The information provided below is from Defense Information Systems Agency and is not a hoax.

Chief, Computer & Network Operations
OUSD A&T

CIAC INFORMATION BULLETIN

H-47a: AOL4FREE.COM Trojan Horse Program Destroys Hard Drives

PROBLEM: A Trojan Horse program called AOL4FREE.COM that deletes
 all files on a hard drive is circulating the Internet.
PLATFORM: DOS/Windows-based PCs
DAMAGE: When the AOL4FREE.COM program is executed, all files and
 directories on the users C: drive are deleted.
SOLUTION: DO NOT execute this program. If the program starts
executing, quickly pressing Ctrl-C will save some of your files.

VULNERABILITY Users who download the trojaned AOL4FREE.COM program and
ASSESSMENT: executes it will destroy all the files and directories on
 their DOS C: drive.

CIAC has obtained a Trojaned copy of AOL4FREE.COM that destroys hard drives.

NOTE: This is different from the AOL4FREE Virus Warning hoax message.

CIAC has obtained a Trojaned copy of the AOL4FREE.COM program that, if run, all the files on a user's hard drive. If you are e-mailed this file, or if you have downloaded it from an online service, do not attempt to run it.

If the program was received as an attachment to an e-mail message, do not double click (open) it. Opening an attached program runs that program, which in this case deletes all the files on your hard drive. The original AOL4FREE was a Macintosh program for fraudulently creating free AOL (America Online) accounts. Note that any attempt to use the original AOL4FREE program may subject you to prosecution.

NOTE: Most antivirus programs will not detect this or other Trojan Horse

programs.

Detection

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AOL4FREE.COM is a Trojan program that is 993 bytes (2 sectors) long. The following text is readable in the AOL4FREE.COM file if you display it with the DOS TYPE command or the DOS EDIT program.

Compiled by BAT2EXEC 1.5
PC Magazine . Douglas Boling

Note that this text may appear in any program compiled with the BAT2EXEC program and has nothing to do with the Trojan Horse.

If you open the AOL4FREE.COM file with a disk editor or with the Windows Notepad program, the following text is found at the end of the second sector of the file.

```
PATH
COMMANDC earc
/C C:
/C CD\
DELTREE /y *.*
ECHOYOUR COMPUTER HAS JUST BEEN F***ED BY *VP* F*** YOU AOL-LAMER
```

Where F*** is a common vulgar explicative.

Recovery

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Pressing Ctrl-C before the Trojan Horse finishes deleting all your files will save some of them. If the program runs to completion, all the files on your root drive will have been deleted. The files are deleted with the DOS DELTREE command, so the contents of the files are still on your hard disk, only the directory entries have been deleted. Any program that can recover deleted files will allow you to recover some or all of the files on your hard disk.

While attempting to recover files, be sure to not write any new files onto the hard disk as the new files may overwrite the contents of a deleted file, making it impossible to recover. You will probably have to boot your system with a floppy and run any recovery programs from there.

If you happen to have one of the delete tracking programs installed on your system (a program that keeps track of deleted files in case you want them back) the recovery operation will be relatively simple. Follow the directions in your delete tracking program to recover your files. If not, you

will probably have to recover each file individually, supplying the first character of the file name, which is overwritten in the directory when the file is deleted. Most DOS/Windows disk tools programs also have the capability for recovering deleted files so follow the directions included with those programs to do so.

Background

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The original AOL4FREE Macintosh program was developed to fraudulently create free AOL accounts. The creator of that program has pleaded guilty to defrauding America Online for distributing that program. Anyone else attempting to use that program to defraud AOL could also be prosecuted.

The AOL4FREE Virus Warning message has been circulating about the Internet and warns of an AOL4FREE virus infected e-mail message that infects and destroys a system when the message is read, but that warning is a hoax and not about this Trojan horse.

1. The AOL4FREE.COM program is a Trojan Horse, not a virus. It does not spread on its own.
2. A Trojan Horse must be run to do any damage.
3. Reading an e-mail message with the Trojan Horse program as an attachment will not run the Trojan Horse and will not do any damage. Note that opening an attached program from within an e-mail reader runs that attached program, which may make it appear that reading the attachment caused the damage. Users should keep in mind that any file with a .COM or .EXE extension is a program, not a document and that double clicking or opening that program will run it. Macintosh users have the additional problem that Macintosh programs do not have readable extensions, and so are more difficult to detect. Extra care should be taken to insure that you do not unintentionally execute an attached program.

CIAC still affirms that reading an e-mail message, even one with an attached program, can not do damage to a system. The attachment must be both downloaded onto the system and run to do any damage.

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: "James S. Braun" <jsbraun@frontiernet.net>
Subject: [18048] FS: Ten Tec Argosy 525 w/accessories
Message-ID: <335E352F.208F@frontiernet.net>

Ten Tec Argosy 525 fully loaded with matching #225 power supply.
Has following installed:
#219 250hz CW Filter

#220 2.4khz 8 pole xtal IF Filter
#223 Noise Blanker
#224 Audio CW Filter (Embedded Research version)
#1126 Linear Relay
Transceiver is in "mint" condition...low serial number #37 (that's backwards "73"....well, at least I thought that was cool)
Have #215 Microphone w/stand, original box, and manuals.

I am asking \$575
If interested I can be reached at (716)367-9826 or e-mail:
jsbraun@frontiernet.net

Thanks/ 73's
Scott
KB2GWF
Qrp-1 #286

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: Mark.Milburn@cybrtech.com
Subject: [18057] FSFM
Message-ID: <199704230359.XAA101671@nss2.CC.Lehigh.EDU>

The results of the FSFM from Iowa on Tuesday April 22nd:

TIME	CALL	FREQ	HIS RST	MY RST	STATE	NAME	POWER
0003	K5ID	10.115	549	559	AR	KEN	5
0022	KM7W/4	10.115	549	539	TN	MARTY	3
0046	N4ROA	10.115	449	439	VA	DAN	3
0112	WA1QVM	10.115	339	549	MA	JOEL	4
0115	N5CLU	10.115	449	559	KS	STEVE	2
0135	KI7MN	10.115	449	449	AZ	BOB	5
0148	KS4L	10.115	549	559	AL	RANDY	5
0154	N4UY	10.115	339	339	VA	JAKE	5
0208	N4UY	7.112	449	339	VA	JAKE	5
0216	K5ID	7.112	559	459	AR	KEN	5

7.043 NO CONTACTS

Conditions in the early part of the evening were marred a little by some nearby rain cells, causing quite a bit of QRN.... the rest of the evening the conditions were pretty good. I was running five watts to a low dipole tucked under the eaves of the house, fed with open wire and a tuner. Heard plenty of signals, so bands were in pretty good shape.

My apologies to a couple of stations on 10.115 that I could hear calling, but just couldn't pull through. Later in the evening I picked up two of them, but I think there were another one or two that I just never could copy well enough to make the exchange.

72/73 Mark

KQOI @ WOAK.#CIA.IA.USA.NOAM e-mail: mark.milburn@cybrtech.com
ARRL-DMRAA-QRP-L #625-NORCAL #1829-ARS #139-NW QRP #418-QRP ARCI #9226
WIMPS Qs=017, 30m=17, 17m=00, 12m=00, States=11, Provinces =00, DX=01

... nfx v2.6 [C0000] The reward of a thing well done is to have done it

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: Clark Fishman <cfishman@pica.army.mil>
Subject: [18097] G-QRP Club
Message-ID: <9704231502.aa15340@pa1.pica.army.mil>

Does someone have the G-QRP Club e-mail address?????

Clark Fishman WA2UNN cfishman@pica.army.mil

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: Stanley Wilson <microres@crl.com>
Subject: [18107] HAMCALC (tuner.bas)
Message-ID: <Pine.SUN.3.91.970423122902.11066A-100000@crl12.crl.com>

I find that all HAMCALC.ZIP are not equal. I am looking for TUNER.BAS

I have a 750 k zip version of hamcalc and also a hamcal94.zip but neither have the TUNER.BAS pgm. Does anyone know where I might find this on the web ? Or If you should have tuner.bas can you send it as an attached file. I can receive attached binary ok.

Thanks, Stan AK0B

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: "jerry" <jerry@otherside.com>

Subject: [18056] Help w/38S

Message-ID: <199704230355.WAA24060@nirvana.otherside.com>

Gang,

Recently got around to building the 38. I built it completely stock except for jumpering R24 and leaving a couple of turns off of T1. It does have 2 distinct peaks on alignment and puts out about 250mw.

The problem is that when I tune a station in I'am transmitting about 500hz lower than I'am receiving him on. Anyone know the fix for this? Thanks in advance for any info on this problem.

Really enjoyed building this little kit, especially when it worked the first time I turned it on and did not let out any smoke. It has been since the Heathkit days (70's) since I built a kit and I'm afraid I'm hooked again. BTW, what is a good source for a good linear 10 turn pot and dial for something like the 38S?

72

Jerry

WD9CTB

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997

From: "Ranson J. Pelt" <pelt@vt.edu>

Subject: [18104] homebrew switches

Message-ID: <3.0.32.19970423165950.006a4c48@mail.vt.edu>

If you use the diode approach to joining your transmitter and receiver antenna line (ala qsk), you have to build in a circuit to add capacitance when you key the transmitter. Other wise, you will hear the transmitter vfo when you zero beat. An example is in the QRP Classics. Check out the DeMaw 20/40 transmitter.

I built one of these into a qrp 80 transmitter. I use a pnp transistor to switch in about 15 pf when keying.

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997

From: w7rfm@juno.com (John E Hirsch)

Subject: [18069] Honey do list

Message-ID: <19970423.064204.11758.6.w7rfm@juno.com>

Well I went on the air a little early to try and get a few contacts.

I was on from 7:30 pm Pacific time local till 9:30 pm and in that time only 2 contacts or should I say only one because KE6RRN answered my call of cq rp and when I had said tn timer and my name some BIG guns were on top of us and I never Heard him again.

I did have a nice QSO with KC5GWU for almost 1/2 hr. Heavy QRM killed his signal and I could not hear him. I hope he could hear my 73's to him.

I will keep trying every evening and my code speed will improve and my rigs will improve. Hi Hi

de w7rfm
John in Federal Way, Wa
w7rfm@juno.com
NorCal #? Rainbow #328 , 38s When finished

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: Clark Fishman <cfishman@pica.army.mil>
Subject: [18089] HW-9 Modification
Message-ID: <9704231316.aa08959@pa1.pica.army.mil>

Does someone out there have the article written in Radio Communications about the modification to the 2 filter matching transformers in the HW-9???

I lost the magazine and sure would like a copy....glad to pay for all expenses.

Clark Fishman WA2UNN cfishman@pica.army.mil

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: wb2vuo@juno.com (William K Hibbert)
Subject: [18046] International Radio Email Address?
Message-ID: <19970422.215023.7367.0.wb2vuo@juno.com>

Not having a full Internet server, I have no way to browse fro sites and/or addresses.

Does anyone on the list know if International Radio in Florida (the group that took over the Fax-Tango operation) has an Email address?

Hope so, and TIA for the adr:

72/73, Keith, WB2VUO, QRP-L #582, scQRP 40, 100% QRP
Tech Specialist (ARRL/WNY), ARRL Life Member,
Trustee, KB2YTW/B 10 Mtr QRP Beacon (4 Watts @ 28.2870 MHz)

"In the Depths of the Great Bergen (NY) Swamp...FN13ac"

Packet - wb2vuo@w2im.#wny.ny.usa.noam *** Email - wb2vuo@juno.com

SnailMail - CBA *** Phone - 716.494.1239

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997

From: Pete Meier -- WK8S <pmeier@tir.com>

Subject: [18072] Item for sale

Message-ID: <199704231431.KAA02448@tir.com>

My Kenwood TS-50 HF Mobile Transceiver is still available if there is any interest.

Price is \$720 delivered. In excellent condition w/original manual and boxing.

Power levels set to 5/10/100 watts.

Trying to raise money for Dayton so no trades please.

email pmeier@tir.com

Pete WK8S

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997

From: Doug Hendricks <ki6ds@dpol.k12.ca.us>

Subject: [18084] KI6DS SSB QRP TO THE FIELD

Message-ID: <3.0.1.32.19970423093941.006a805c@telis.org>

Guys, Vern Wright, W6MMA sent me his MFJ9420 SSB rig to use for my mini-expedition to AREA 51 for QRP To The Field this Saturday. I will be operating around 14.285 plus or minus, and calling CQ51. There will be four of us in the expedition, with Paul Harden, NA5N, Ron Stark, KU7Y and Bob Follett, AB7ST the other operators. They are all planning on operating CW, so look for them in the CW portion of the bands. Bob is also bringing his QRP+ as a backup for SSB operation, and if I have time I will operate some 40 meters too.

My antenna setup will be two phased SLV-MMA Coil verticals. Vern has provided me with the phasing network, and I will have the use of two SLV poles with his coils. This setup has worked very well for Vern, and hopefully will net some contacts this Saturday.

I will leave Dos Palos for San Jose, and fly into Las Vegas with my wife.

Somehow she did not want to stay at home this trip. Wonder why? Oh well, we all make sacrifices. Paul Harden is going to meet us at the airport, and then take us to the hotel where we will gamble and then eat a late dinner. The plans are to meet Ron and Bob early Saturday morning at one of the famous Las Vegas breakfast buffets. Bob is bringing along his popup tent trailer, and we will use that as our base of operations.

We should leave Las Vegas about 8:00 AM, and hope to be at Area 51 by 10:00 AM or so. I will have my digital camera and will take pictures of all the activities. I will also have my laptop with me, and should be able to send pictures to Jerry Parker for the Web Page Saturday night.

The expedition will put 4 stations on the air with all of us using our own calls. We will be calling CQ51, so if you hear us on the air, be sure to give us a call. Hope to work you from Area 51, and remember, Paul is designing a special QSL, so if you work us, please QSL. 72, Doug, KI6DS

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: Frank G3YCC <g3ycc@gqrpclub.demon.co.uk>
Subject: [18087] Linear amp cct
Message-ID: <861814799.0021957.0@gqrpclub.demon.co.uk>

If anyone is having trouble getting this circuit from my web site (yes, it is there), I will email it to them, just ask.

Frank G3YCC

QRP Web Site: <http://www.gqrpclub.demon.co.uk>

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: dearly@cocc.edu (Daniel K. Early)
Subject: [18078] Looking for 40 M qrp - addition
Message-ID: <v01540b01af83e03ebc72@[206.163.24.56]>

I am looking for a 40 M qrp rig to operate from Mexico. Would like one with rit and external speaker if possible, preferably 5 Watts. Not in kit form. Also does anyone know about the HW-40 QRP transceiver characteristics?

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997

From: dearly@cocc.edu (Daniel K. Early)
Subject: [18077] Looking for 40M QRP transceiver
Message-ID: <v01540b00af83ddc928ab@[206.163.24.56]>

I am looking for a 40 M qrp rig to operate from Mexico. Would like one with
rit and external speaker if possible, preferably 5 Watts.

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: wb2vuo@juno.com (William K Hibbert)
Subject: [18047] Looking for the following:
Message-ID: <19970422.215023.7367.1.wb2vuo@juno.com>

I am looking for a couple of radios. QRP, of course...

1 - FT-690R/290R/790R: NOT the R Mk II models, but the original models
with the internal battery packs. These would have been the models out
around 10 years ago. The 6 Meter version has USB/AM (!!)/FM and CW, the
2 Meter and 70 cm versions are USB/LSB/FM and CW

2 - AEA "DX-Handie" for 6 and for 10 Meters. These are the same as the
Mihuzo radios currently sold in JA-land

3 - Drake TR-33. This is a 12-channel FM rig, internal battery pack and
only used a single crystal per channel. The TX offset was controlled
with a separate oscillator.

4 - Icom IC-502/202/402 SSB/CW portables. These rigs had an internal
C-cell battery pack and covered a limited range in the narrow-band
section of the band(s)

5 - Standard SRC-146A. This is a nostalgia radio for me. My first HT
was a '146A back in 1974. It's BIG, HEAVY, has only 5 channels and will
take all sorts of abuse.

Anyone have any of these collecting dust on the shelf? Drop me a line if
so (direct Email, PLEASE...) and let's talk...

72/73, Keith, WB2VUO, QRP-L #582, scQRP 40, 100% QRP
Tech Specialist (ARRL/WNY), ARRL Life Member,
Trustee, KB2YTW/B 10 Mtr QRP Beacon (4 Watts @ 28.2870 MHz)
"In the Depths of the Great Bergen (NY) Swamp...FN13ac"
Packet - wb2vuo@w2im.#wny.ny.usa.noam *** Email - wb2vuo@juno.com
SnailMail - CBA *** Phone - 716.494.1239

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997
From: mdwatt@usit.net (Marty Watt)
Subject: [18067] MFJ Power Out
Message-ID: <335e0993.107806170@smtp.usit.net>

I have an MFJ 9040 CW transceiver, and I'm only getting 2W out max. I know I have antenna problems (it's too long), but even with a tuner in line, 2W is the max. I can tweak it up to 2.5 with the TX1 and TX2 cans, but the baseline remains well below the 5 watts rated. I have aligned the radio per MFJ manual, except for items that require a signal generator or scope. My 38 Special with the 5-watt mod puts out 3 watts.

All this is being measured on an OHR WM-2 that I recently assembled. Could that be the problem? I kind of doubt it, as the assembly and calibration went very, very smoothly.

Any ideas? Or am I measuring RMS while the specs are for peak? Even that would give me about 3 Watts out peak on the MFJ ...

72 es 73 de=20
Marty, KM7W

Jackson, Tennessee e-mail: mdwatt@usit.net
http://www.public.usit.net/mdwatt
"The Curmudgeon's Corner"
NorCal #???? - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq
~~~~~

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: "Jeff M. Gold" <JMG@tntech.edu>  
Subject: [18105] MFJ power out  
Message-ID: <01II1TX2JWJM8WXZC8@tntech.edu>

I agree. I would check the voltage source. My MFJs (had a bunch) all put out 5 watts or more with 12.8 volt or so source.

My N38S seems to be sensitive to voltage varying from about 4 to 5 watts (5 on a 13.8 volt source). I use one of the original Oak Hills QRP wattmeters for measurements.. always been fairly accurate when I cross checked with other commercial produced meters

72

Jeff, AC4HF

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: Frank G3YCC <g3ycc@gqrpclub.demon.co.uk>  
Subject: [18041] Mini tuner, oops again!  
Message-ID: <861730415.1111202.0@gqrpclub.demon.co.uk>

<http://www.gqrpclub.demon.co.uk/minitnr.htm>

works for me

Frank G3YCC  
QRP Web Site: <http://www.gqrpclub.demon.co.uk>

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: kh6b@juno.com (Dean W Manley)  
Subject: [18082] Moku Ola Island  
Message-ID: <19970423.062345.5391.0.kh6b@juno.com>

Hello gang. Final results from the 5th Annual  
Moku Ola Island DXpedition, April 19-20.

The weather was picture perfect. The antennas  
took longer than expected to install. We had  
20 operators and assistants. Here's the breakdown  
per band in the ALOHA log:

|     |   |    |
|-----|---|----|
| 160 | 0 |    |
| 80  | 3 |    |
| 40  |   | 19 |
| 30  | 0 |    |
| 20  | 9 |    |
| 17  | 2 |    |
| 15  | 5 |    |
| 12  | 0 |    |
| 10  | 0 |    |
| 6   | 0 |    |
| 2   | 2 |    |

There was about equal division of the contacts

on cw and ssb. Rigs were TT-515 and Scout 555.

73 and Aloha, Dean Manley KH6B  
ARRL Life Member, HI Chapter QCWA,  
ARCI 6257, QRP-L 1032, HI-QRP 1, NorCal ????,  
BK29KP Hilo, Hawaii  
kh6b@juno.com

73 and Aloha, Dean Manley KH6B  
ARRL Life Member, HI Chapter QCWA,  
ARCI 6257, QRP-L 1032, HI-QRP 1, NorCal ????,  
BK29KP Hilo, Hawaii  
kh6b@juno.com

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: K4AHK@ix.netcom.com  
Subject: [18053] MRX-40  
Message-ID: <335D7572.3A1E@ix.netcom.com>

Arrived home from work tonight to find my CQRP MRX-40 receiver kit. It is now operational. I was just copying Barry - NM9C, KG5S, K5ZBP and KC8CCW from my Northern Virginia shack with attic dipoles. What a neat toy! Good job!

I gotta go play with it some more so 72 - -

Bill - K4AHK

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: Bob Tellefsen-CNSE97 <Bob\_Tellefsen-CNSE97@email.mot.com>  
Subject: [18092] Noise blanker  
Message-ID: <M1426004.007.3spi6.1.970423182944Z.CC-MAIL\*/OU=LMPCC10/OU=ILBE/PRMD=MOT/ADMD=MOT/C=US/@MHS>

Paul:

Some years ago, I think in Hints and Kinks, there was a short write-up on a solid state version of the noise blanker circuit from one of the Drake receivers, possibly the R4.

If you can track it down, it might be a basis for what you need. You could email

ARRL and they could get you the reference.

72, Bob N6WG

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: Joseph Trombino jr <joebarb@wilmington.net>  
Subject: [18074] QRP+ for sale  
Message-ID: <3.0.1.32.19970423110944.006861b0@mail.wilmington.net>

Am posting the following items for a friend who is not yet on line.

Index Labs QRP+ s/n 1026 9 on scale of 10, w/manual and black foam lined carrying case, \$425

Tektronix scope model 465, 100mhz w/manual, \$250

Interested parties should contact Larry, WA3EJL, directly at 703-922-5631

Joe, W2KJ ARCI 5919 MI-284, NORCAL, etc

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: "Gary R. Hanson" <ghanson@uts.cc.utexas.edu>  
Subject: [18070] QRPTTF - Sometimes Island & Last Sighting of Elvis (long)  
Message-ID: <335E2864.5ACF@uts.cc.utexas.edu>

Hi Gang,

Only a QRPer would consider operating "maritime" mobile from Central Texas, but I'll be hovering over "Sometimes" Island in the middle of Lake Travis, Texas on my sailboat with a 20 meter rotatable dipole (Frank-G3YCC's version) and a 40 meter sloper antenna from atop the 26ft mast.

Lake Travis is a "small" Texas lake about 15 miles west of Austin and the water level will rise and fall about 30 feet over the course of any given year depending on rain fall and the water release from the dam. When the water level is low, the "sometimes" islands appear and when it's high, well... they disappear.

The last time we saw the islands in Lake Travis, the spirt of Elvis made an appearance. In the middle of the island, a LARGE black velvet



painting of Elvis, a pair of blude suede shoes, and a sofa all mysteriously arrived over night and stayed all summer. Over a few weeks time, the stones on the island re-arranged themselves (?) into a "WE LOVE YOU, ELVIS" message. It became a popular shrine and boatloads of people would come to have their picture taken with Elvis. The Sometimes Islands are now 25 feet under water, but as far as we now the painting, shoes and sofa are still there. Is this weird enough?

My plan is to anchor over the island and use the power of Elvis's spirit to give my RF a 10db boost. I'll be signing KJ5VW/mm. Look for me.

I'm taking my MXM-40, NW20 and WM-20 (SSB at the top of the hour). Of course, we have a 50% chance of severe thunderstorms predicted for Saturday. I won't be sitting under a 26-foot aluminum mast in the middle of the lake during a Texas thunderboomer for very long.

Catch me if you can!

See you Saturday,

Gary, KJ5VW

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997

From: Brian Cieslak <brianc@ams-i.com>

Subject: [18066] QRPTTF from Nichols Observatory

Message-ID: <c=US%a=\_%p=Adaptive\_Micro\_S%l=AMS-I\_SERVER\_-970423132317Z-3323@ams-i-server-1.ams-i.com>

we'll be doing some maintenance from the Nichols Observatory in Richfield Wisconsin so I'll take the rig with and operate a little from the dome. In the past we've operated a special event station for national astronomy day and I noticed that the antennas are still up.

What makes the Nichols so weird. One of our astronomers discoverd Hale Bopp....2 days after Hale and Bopp did (except he didn't know it at the time)

He was the third to call it into IAU but didn't make the 24 hour deadline. ( At least that's his story)

Brian AE9K

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997

From: CBAILEY@PAMDT.ANG.AF.MIL

Subject: [18079] QRPTTF Site

Message-ID: <heH8+J8XlnB@PAMDT.ANG.AF.MIL>

Folks,

No promise, but I may be operating at or near a site where something unexpected happened in March of 1979.

Given my location as central Pennsylvania, can you guess where?

P.S. Wrong answers will give me ideas for next year.

72, kt3a

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997

From: "Heron, George" <G.Heron@dialogic.com>

Subject: [18058] Rainbow Tuner updates at <http://www.njqrp.org>

Message-ID:

<c=US%a=\_%p=Dialogic%l=EXCHANGE1NJ-970423043518Z-28660@exchange1nj.dialogic.com>

Gang -

When you get a chance, take a look at our NJ-QRP club website (<http://www.njqrp.org>) to view some pretty exciting updates concerning the Rainbow Tuner kits.

We've consolidated and augmented the sections concerning the Rainbow, now all accessible from a front page graphic, with new sections for:

- Application Notes ... various configuration and operation suggestions for the Tuner/Bridge
- Shipping Status Reports ... each chronologically listed, per the weekly updates given here in QRP-L by N2CX
- Owner Feedback and Reviews ... commentary from current owners, relating their construction experiences and satisfaction with the Tuner kit

The other Rainbow Tuner sections include:

- Description
- Schematic
- Data Sheet
- Block Diagram
- Errata
- Ordering Instructions

(Recall that the Rainbow Tuner is a 30m antenna tuner/bridge project designed by Joe Everhart, N2CX and kitted by the NJ-QRP Club for the benefit of all interested hams. The kit price is very nominal and the

end result is a great match for the 38 Special transceiver.)

Another topic that may be of interest is our new concept of CLUB PROJECTS. Described more completely in the respective pages on the website, we're laying the foundation for a series of projects geared for member-participation spec/design/fab/test.

The first of our club projects is going to be a Beacon/Keyer, also described briefly in its sub-page on the website. We're already into heavy discussion on our listserver (njqrp@njqrp.org) concerning the specifications and market features we're interested in. This will turn out to be a real fun and useful project to follow the evolution of.

Anyway, if you get a chance, check it out and let us know what you think!

Tnx es 72,

--George N2APB

g.heron@dialogic.com

<http://www.njqrp.org> <-- Home of the NJ-QRP Club

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997

From: Chandler Russell H <rhchan@facstaff.wm.edu>

Subject: [18042] Request for Help?

Message-ID: <199704230024.UAA18142@facstaff.wm.edu>

A recent upgrade has now given me privlidges to the 30 meter band. I purchased a Micronaut for the 30 meter band as a first attempt at kit building. On the recommendation of a number of postings to QRP-L I would like to attempt the MRX-40 as a companion receiver but (re)tuned to 30 meters. I understand this is a possible by reworking the values of the capacitors and such. What would the formulas be for reworking these values and are there any other considerations I may be overlooking? A great deal of this theory is still foreign to me.

Any insight into the above request would be greatly apprecaited.

Russ

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>  
Subject: [18043] Sell: Alinco DX-70TH (100w on 6m), like new  
Message-ID: <Pine.3.89.9704221921.E14501-0100000@w3eax.umd.edu>

It's like new, and it's for sale. Never mobile. Removable head, mobile mounting bracket, sells new for \$930 or \$970, depending upon where you look. Covers HF and 6 meters, with 100 watts output on 6m. Weighs all of 5.5 lbs.

Used almost never, as I have two of them. Reason for selling:

Just bought a Yaesu FT-736. One can't say when a deal will just come up, and things gotta move...

With manual, asking \$795. Considerably less than a year old. Had I not gotten the 736, I'd NEVER be considering doing this.

\* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 \*  
\*\*\* 6m 75 grids worked on 8 watts \*\*\* HF 140 cfm \* QRP-L #147 \*\*\*  
\*\* QRP ARCI #9054 \*\* DXCC/WAS/WAC \*\*\* 100% dipole powered HF/6m \*\*  
\* 301-549-1022 h / 301-982-1015 w \*\*\* 145.490- 147.225+ PL 156.7 \*

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: talljazz@teleport.com (Dan Presley)  
Subject: [18060] Sierra & Wilderness  
Message-ID: <v0153050faf836322ffe4@[206.163.124.204]>

I wanted to post a note here in high praise of Bob Dyer at Wilderness Radio. I was having problems getting no power out on my 15M band module, and pestered Bob numerous times for suggestions and advice. After some basic troubleshooting, he said he would send some parts for an update just to make sure that this wasn't the problem. Within 2 days, I got the parts (no charge!), installed them, and it cured the problem. You can't ask for better support than that!

I recommend you make this mod to your Sierra if you haven't done so already-it consists of replacing Q5 with a J310 (stock is 309), and installing a ferrite bead on the base of Q6; also, remove D11 & D12, and replace with a .01cap and 220 ohm resistor. This brought power up to 1.5 (from zero) on 15 M, and improved power out on 20 & 17M. You can contact Bob for more details, or I will pass on the info in more detail if necessary-best to go direct to him.

Dan N7CQR

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: John Seboldt <rohrwerk@pcOnline.com>  
Subject: [18044] T/R Switches  
Message-ID: <103020900af82c13ff14d@[206.145.48.189]>

You can find my T/R approach on the Web:  
<http://www.pconline.com/~rohrwerk/k0jd/> .

For a decent 25 watt switch, you'll find there a duplicate of the switch from my Ten Tec Argosy -- two 1N4007 diodes, a rectifier setup that rectifies some of the RF to back bias the diodes on transmit, and some transistor switching to keep everything happy. It needs about 40 mA of current, though, for decent receive performance.

The low-current approach is:

pick off from the INPUT side of your final's lowpass filter with a capacitor of 50 ohms reactance at your chosen frequency. (Subtract this capacitance from your filter's first grounded leg)

Feed this to a pair of back to back silicon diodes to ground. This limits the voltage to about .6 volts peak to peak..

Then take a series inductor of 50 ohms reactance into your receiver. This makes a series-tuned circuit for low loss. This inductor will be pretty big of course at that low an impedance.

This is satisfactory for many portable rigs, but can limit the dynamic range or cause strong signal intermod/rectification. I've used it at a bit over 5 watts.

John K0JD

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: John Seboldt <rohrwerk@pconline.com>  
Subject: [18098] T/R Switches again  
Message-ID: <Pine.LNX.3.95.970423151135.2321B-100000@newton.pconline.com>

In my posting on the back-to-back diode TR switch, I mentioned using capacitor/inductor of 50 ohms reactance. It should be more like 400 ohms! That should save you some wire and iron in your inductor.

This is in my document <http://www.pconline.com/~rohrwerk/k0jd/r2t2stn.html>

John Seboldt K0JD

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: "Mark S. Adams" <msadams@acsu.buffalo.edu>  
Subject: [18096] The Cubbie Explained  
Message-ID: <199704231948.PAA135119@nss2.CC.Lehigh.EDU>

Hi Tony and Gang,

A few of you asked me, "what is a Cubbie?" Well, it is an Argo 556 by TenTec. Since it is the little brother of the Scout it MUST be a Cub Scout, or Cubbie! The name was coined by two of my fellow Buffalo QRPers, AA2PF and N5JI, ex AA2WJ (who recently defected to the Nortex group).

72, Mark N2VPK  
Member of the Buffalo QRP Connection  
WIMPS: Qs=007 30m=7 17m=0 12m=0 States=07/00/00 DXCC=04/00/00

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: Stanley Wilson <microres@crl.com>  
Subject: [18055] WTD Smith Chart Software  
Message-ID: <Pine.SUN.3.91.970422200214.1276A-100000@crl4.crl.com>

Any sites on the web with demo or free Smith Chart software program ?

Or know of a low cost program ?

Thanks, de stan ak0b

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997

From: "David D. Meacham" <ddm@datatamers.com>  
Subject: [18038] Re: 40A mod & other  
Message-ID: <Pine.LNX.3.91.970422151815.3152A-100000@dt1.datatamers.com>

Tim,  
Re Q1: Aside from the VF0, to get 150kHz coverage for the TX portion  
you'll probably have to go to a double-tuned circuit in place of L6/  
C38/C39 (Club kit component numbers). Otherwise, power will fall off  
at each end of the range.  
72, Dave, W6EMD

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: Jeff Grudin <grudin@pacific.vdbs.com>  
Subject: [18040] RE: 40A mods  
Message-ID: <335D280A.796@pacific.vdbs.com>

>There's a better way to get 150 KHz coverage. A mod was  
>published (a few years ago now) that uses a 10-turn pot and some simple  
>circuit mods.

I did this another way that was posted prior to the 10 turn pot idea. I  
put a DTDP switch with two trim caps on it. This gives me three tuning  
ranges of about 40kHz. They are tuned to 7000 to 7040, 7040 to 7080, and  
7100-7140. I really like this method because to go from 7000 to the  
novice band at 7100, I just click the switch I don't have to turn the  
knob 8 turns.

--  
73 de Jeff AC6KW  
grudin@vdbs.com

---

|                  |                                           |
|------------------|-------------------------------------------|
| QRP-L #16        | Private Practice : Companion Animals and  |
| Exotics          |                                           |
| Norcal QRP #1292 | Ocean Animal Clinic / Cat Clinic of Santa |
| Cruz             |                                           |
|                  | Santa Cruz,                               |
| California       |                                           |

QRP'ers do it with less energy (but lot's of enthusiasm)!

---

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997

From: Chris Cartwright <ccart@dns.vidtel.com>  
Subject: [18054] Re: An "extra" copy of 12/96 QRPp  
Message-ID: <Pine.LNX.3.93.970422212625.2042A-1000000@dns.vidtel.com>

A couple responses so far , but no bribes, yet :) How's this for a contest, everyone who sends me a 9"x12" envelope with four stamps and a return address label "wins" a Dec QRPp kit. By kit, I mean I'll make double sided copies and mail them off but you have to fold and staple them yourself.

Just mail the big envelope with the stamps and the label in it and I'll "recycle" it by putting your address label and stamps on it, and my own return address on it. Then I mail it back to you.

As for the original, if someone has a complete set or something and is only missing Dec 95, I'll mail it off. I guess it's sort of a best-hard-luck-story-wins. Now the tough part of the contest, you have to find my snail mail address:) Hint, I'm good in UALR.

Sorry only one winner per household, winner is responsible for all taxes and fees. May not be combined with other offers, no warranty expressed or implied, Offer not valid in countries with minimum power requirements. Offer expires whenever the copier runs out of toner.

```
-- Chris Cartwright, Technical Engineer      |      ccart@vidtel.com      --  
-- Phone 301.990.0735 N3XRV QRP-L #655      |      ccart@erols.com      --  
-- QRP WAS 14/8 (w/c)      QRP-ARCI #9271    | http://dns.vidtel.com/~ccart --  
-- WIMPS Q's=00 30M=00 17M=00 12M=00 STATES=00/00/00 DX=00/00/00 QSL's=00 --
```

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: n8klx@juno.com (Jerome F Radcliffe)  
Subject: [18086] Re: Any SSBers in QRPTTF?  
Message-ID: <19970423.132808.14430.0.n8klx@juno.com>

Mark,

I will be running SSB during the contest also. plan to be on or about 14.265 conditions permitting. hope to work you. This will be a test run for field day. good luck in the contest,

72, Jerry N8KLX



From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: Frank G3YCC <g3ycc@gqrpclub.demon.co.uk>  
Subject: [18039] Re: condoms as portable antenna supports.  
Message-ID: <861728481.0628670.0@gqrpclub.demon.co.uk>

Try explaining to the XYL that's why you just bought 100!  
Frank G3YCC  
QRP Web Site: <http://www.gqrpclub.demon.co.uk>

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: Chris Cartwright <ccart@dns.vidtel.com>  
Subject: [18049] Re: condoms as portable antenna supports.  
Message-ID: <Pine.LNX.3.93.970422211657.2026A-100000@dns.vidtel.com>

On Mon, 21 Apr 1997, Frank G3YCC wrote:

> Try explaining to the XYL that's why you just bought 100!

If she doesn't believe you she could end up being the XXYL, :)

```
-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --  
-- Phone 301.990.0735 N3XRV QRP-L #655 | ccart@erols.com --  
-- QRP WAS 14/8 (w/c) QRP-ARCI #9271 | http://dns.vidtel.com/~ccart --  
-- WIMPS Q's=00 30M=00 17M=00 12M=00 STATES=00/00/00 DX=00/00/00 QSL's=00 --
```

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: RFMooreJr@aol.com  
Subject: [18090] Re: Homebrew T/R Switches?  
Message-ID: <970423142217\_-1233250851@emout20.mail.aol.com>

In a message dated 97-04-22 13:24:25 EDT, Kory wrote:

< I'm also interested in a solid state QSK circuit to add to a 25 watt  
< solid state amp that I am building (see W1FB's column in Jan 96 of CQ).  
< W1FB mentions his QSK circuit in his QRP notebook, but it seems that that  
< circuit is very lossy. Also, in the book he says its rated for 5 watts,  
< but in the CQ article he says it can handle 25 watts. And on top of this,  
< I can not figure out how to use his circuit in an external amp.

<Any pointers to good QSK T/R switching for external amp would be great!

I AGREE! The answer probably is either (1) fast relay or (2) PIN diodes.  
Has anyone experimented with how much a reed relay will take? Does anyone know a small-quantity source of medium power PIN's? How does TenTec do it? Seems to me that by now there would be some "standard" QRP QSK circuit but I haven't seen much since "Solid State Design ...". My homebrew (2 watts) uses the two-diode-in-a-series-resonance trick. Aside from possible losses and clipping distortion, it's a pain to multiband this approach but it does work --- my QSK sound (or lack thereof) is great.

Hope to hear more on this.

Bob -- KV1V

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: Peter Gerba <pgerba@crl.com>  
Subject: [18093] Re: Homebrew T/R Switches?  
Message-ID: <Pine.SUN.3.91.970423112440.7940C-100000@crl4.crl.com>

My Alpha 77D uses a reed relay in the input QSK circuit to switch 60-100 watts. It shouldn't be hard to find one. I think the control circuit in that part of the amp is 26 VDC.

pete, kn6bi

Peter Gerba  
pgerba@crl.com

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: "Arjen Raateland, SYKE/YV, puh. 09 4030 0457" <Arjen.Raateland@vyh.fi>  
Subject: [18095] Re: Homebrew T/R Switches?  
Message-ID: <01II27W4TQS68YBQTC@vyh21.vyh.fi>

> My Alpha 77D uses a reed relay in the input QSK circuit to switch 60-100  
> watts. It shouldn't be hard to find one. I think the control circuit in  
> that part of the amp is 26 VDC.

> Peter Gerba  
> pgerba@crl.com

FWIW: I suppose that signal and control timing is crucial to the successful application of a (small) relay in this kind of circuit.

73, OH2ZAZ  
Arjen Raateland  
-----  
Finnish Environment Institute, Helsinki, Finland  
SAS Support  
EMAIL: Arjen.Raateland@vyh.fi  
tel. +358 9 4030 0457  
fax +358 9 4030 0490  
.-.-. -.-

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: AE0Q V31RY <v31ry@ix.netcom.com>  
Subject: [18101] Re: Homebrew T/R Switches?  
Message-ID: <2.2.16.19970423204037.36e7c040@popd.ix.netcom.com>

>In a message dated 97-04-22 13:24:25 EDT, Kory wrote:  
>  
>< I'm also interested in a solid state QSK circuit to add to a 25 watt  
>< solid state amp that I am building (see W1FB's column in Jan 96 of CQ).  
><W1FB mentions his QSK circuit in his QRP notebook, but it seems that that  
>< circuit is very lossy. Also, in the book he says its rated for 5 watts,  
>< but in the CQ article he says it can handle 25 watts. And on top of this,  
>< I can not figure out how to use his circuit in an external amp.  
>  
><Any pointers to good QSK T/R switching for external amp would be great!

There was a circuit detailed in a late '80s QST by WA1VGB (I copied the article, but didn't note which issue it's from!).. It was in the Technical Correspondence column, titled 'A Diode-Based QRP TR Switch'..

It uses two diodes in series with the anodes connected together, they are between the antenna/XMTR junction and the receiver input. They are biased on by a PNP transistor when in receive (through an RF choke and series resistor that sets the bias current). The author says there is no loss of signal on receive, and he built it into a QRP transceiver based on W1FB's QRP Notebook.

That's the same technique that almost all modern transceivers use to change the bandpass filters in the receiver input circuit.

I can mail a copy of the article if anyone is interested, or possibly someone with QST on CD can search for the issue information.

73 -- Glenn  
-----

"Remember, any tool can be the right tool!" Red Green

AE0Q / V31RY ex: GM5BKC, ZB2WZ, SV0WY, WA0VPK  
v31ry@ix.netcom.com --SOWP 5558-M, QCWA LM, ARRL LM, NCVA--  
<http://www.qsl.net/ae0q>

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: Peter Gerba <pgerba@crl.com>  
Subject: [18102] Re: Homebrew T/R Switches?  
Message-ID: <Pine.SUN.3.91.970423132919.3243A-100000@crl9.crl.com>

Hi; Yes, the switching sequence is critical ..you don't want to switch the output "hot". In the Alpha 77 series Amps the output relay is a Jennings vacuum relay. In QRP switching I don't think the power levels will damage a small reed relay. Maybe someone with more knowledge in this area can pipe in.

pete, kn6bi

Peter Gerba  
pgerba@crl.com

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: Kory Hamzeh <kory@avatar.com>  
Subject: [18103] Re: Homebrew T/R Switches?  
Message-ID: <Pine.BSI.3.91.970423133710.29917A-100000@avatar.avatar.com>

Someone who is savy at this (definitely not me!) should probably start with DeMaw's QSK circuit and maybe clean it up a bit to make it less lossy. For those interested, it is in his QRP Notebook, 2nd edition, page 142. I did figure out how to use it, though. If something isn't very obvious to me, sometimes I give up to quickly!

So, what I'm doing is this: I'm taking the 25 watt HF linear designed by W1FB from Jan 96 CQ, adding the SWR foldback circuitry from the 95 ARRL handbook for their 50 watt HF amp, and using W1FB's T/R switch mentioned above. This will be me a fully protected 25 watt solid state QSK HF linear amp.

The only thing is I need to change the T/R circuit to thing the amp inline when the PPT goes to ground, yet I want the amp out of the circuit

if the power is turned off. Haven't quite figured this out yet. I might have to use a relay for that and a transistor for covert the PPT to +12 then the trnasmitter is keyed. Any help here would be greatly appreciated.

Thanks,  
Kory  
AC6RN

On Wed, 23 Apr 1997 RFMooreJr@aol.com wrote:

```
> In a message dated 97-04-22 13:24:25 EDT, Kory wrote:
>
> < I'm also interested in a solid state QSK circuit to add to a 25 watt
> < solid state amp that I am building (see W1FB's column in Jan 96 of CQ).
> <W1FB mentions his QSK circuit in his QRP notebook, but it seems that that
> < circuit is very lossy. Also, in the book he says its rated for 5 watts,
> < but in the CQ article he says it can handle 25 watts. And on top of this,
> < I can not figure out how to use his circuit in an external amp.
>
> <Any pointers to good QSK T/R switching for external amp would be great!
>
> I AGREE! The answer probably is either (1) fast relay or (2) PIN diodes.
> Has anyone experimented with how much a reed relay will take? Does anyone
> know a small-quantity source of medium power PIN's? How does TenTec do it?
> Seems to me
> that by now there would be some "standard" QRP QSK circuit but I haven't seen
> much since "Solid State Design ...". My homebrew (2 watts) uses the
> two-diode-in-a-series-resonance trick. Aside from possible losses and
> clipping distortion, it's a pain to multiband this approach but it does work
> --- my QSK sound (or lack thereof) is great.
>
> Hope to hear more on this.
>
> Bob -- KV1V
>
>
>
```

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: w7rfm@juno.com (John E Hirsch)  
Subject: [18052] Re: Honey due list done!!!!  
Message-ID: <19970422.193115.11758.0.w7rfm@juno.com>

My falt ... That is 8pm the 22 of April 97 or 0300 23 April 97. I gess all of those projects got me mixed upppppppp!!!

On Tue, 22 Apr 1997 16:23:42 EDT w7rfm@juno.com (John E Hirsch) writes:

>Well for now anyway.....

>

>With the projects that she wanted done I have been off the air for  
>almost a week.

>I plan on being back on 40 m this evening at 0800. I will be  
>operating in the novice band tonight since a couple of the local hams  
>(novices) have ask me to work there for them. I will be in the area of  
>7110-7112 +/- qrm.

>

>Hope to catch you at a slow pace so that all can copy .

>

>de W7RFM

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997

From: wb2vuo@juno.com (William K Hibbert)

Subject: [18063] Re: International Radio Email Address?

Message-ID: <19970423.083324.7791.0.wb2vuo@juno.com>

A good suggestion from Ken, my problem is that my working hours are such that I can't make the call while they are open. Is there anyone down Fort Pierce, FL way that could call them on a local call, and post the Email address (if it exsists) to the list?

TIA

72/73, Keith, WB2VUO, QRP-L # 582

----- Begin forwarded message -----

From: n4so@juno.com (charles k brown)

Subject: Re: International Radio Email Address?

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997

From: "David Yanke" <n9ssg@pobox.com>

Subject: [18071] Re: International Radio Email Address?

Message-ID: <199704231423.JAA15807@mail.xnet.com>

> A good suggestion from Ken, my problem is that my working hours are such  
> that I can't make the call while they are open. Is there anyone down  
> Fort Pierce, FL way that could call them on a local call, and post the  
> Email address (if it exsists) to the list?  
>

Actually, for the time, it is a moot point. The crystal filter division has been sold to a company in Oregon that will not open for business until 1 May 1997. The new number at that time is

514-459-5623. No orders are being taken by either company right now.

I'm also waiting so I can get the filters for my ts-940.

-----  
The second day of a diet is always easier than the first. By  
the second day your off it.

Dave Yanke - N9SSG

mailto:n9ssg@pobox.com    <http://www.pobox.com/~fr1>

PGP Pubic Key: <http://www.xnet.com/~n9ssg/pkey.htm>

FRRL, COL, 10-10 #67441, FISTS #2365, ARRL

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997

From: "Phil, K6LS" <k6ls@amsat.org>

Subject: [18081] Re: Made in USA DVM's?

Message-ID: <335E254B.50F8@amsat.org>

Mark S. Adams wrote:

> Max expenditure here is \$90 so the Simpson stuff is out.

Well Mark, that kinda makes things difficult, setting a \$90 limit.  
You will probably have better luck going to a swap meet and picking  
something up there. I see alot of HP, Fluke, Simpson and other  
USA mfg dmm's for a fair price.

the Fluke 8000A series is a nice unit which should be a solid performer  
and the Simpson analog meters are nice, but these tend to be missused  
and may need alot of tlc to get up to par.

I have a Fluke 8000A, 77 and a Simpson 260 which are working just fine.  
The Simpson I picked up at the swap for \$15, but was abused (internally)  
so I took it to work and one of the insturment shop guys got it up and  
running to better than factory mins in about a half hour! (mostly open  
resistors)

keep your eyes open and with a little luck you may find a treasure.

--

73 de Phil, K6LS

CM97QI, Merced County

k6ls@amsat.org

<http://www.qsl.net/k6ls>

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: jayboy@psnw.com (Jay & Jackie)  
Subject: [18068] Re: MFJ Power Out  
Message-ID: <199704231338.GAA02740@sierra.psnw.com>

Had the same type problem until I took the rigs off my battery pack and put them on a power supply with a little more output voltage...picked a watt or so.

Jay, W6JDB

At 01:24 PM 4/23/97 GMT, Marty Watt wrote:

>I have an MFJ 9040 CW transceiver, and I'm only getting 2W out max.  
>I know I have antenna problems (it's too long), but even with a  
>tuner in line, 2W is the max. I can tweak it up to 2.5 with the TX1  
>and TX2 cans, but the baseline remains well below the 5 watts rated.  
>I have aligned the radio per MFJ manual, except for items that  
>require a signal generator or scope. My 38 Special with the 5-watt  
>mod puts out 3 watts.

>

>All this is being measured on an OHR WM-2 that I recently assembled.  
>Could that be the problem? I kind of doubt it, as the assembly and  
>calibration went very, very smoothly.

>

>Any ideas? Or am I measuring RMS while the specs are for peak?  
>Even that would give me about 3 Watts out peak on the MFJ ...

>

>

>72 es 73 de  
>Marty, KM7W

>

>-----  
>Jackson, Tennessee e-mail: mdwatt@usit.net

> http://www.public.usit.net/mdwatt

> "The Curmudgeon's Corner"

>NorCal #???? - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq

>~~~~~

>

>

>



From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: Jeff Jones <jeffj@crl.com>  
Subject: [18108] Re: Noise blanker  
Message-ID: <Pine.SUN.3.91.970423153746.19724B-100000@crl.crl.com>

On Wed, 23 Apr 1997, Bob Tellefsen-CNSE97 wrote:

> Paul:  
>  
> Some years ago, I think in Hints and Kinks, there was a short write-up on a  
> solid state version of the noise blanker circuit from one of the Drake  
> receivers, possibly the R4.

Real dumb question, how does a noise blanker work? I read a sketchy  
explanation a few years back but it didn't explain it to well. Please  
elighthen this questioning ham. 8-)

Jeff

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>  
Subject: [18109] Re: Noise blanker  
Message-ID: <Roam.SIMC.2.0.4.861836109.29548.myers@bigboy>

>  
> On Wed, 23 Apr 1997, Bob Tellefsen-CNSE97 wrote:  
>  
> > Paul:  
> >  
> > Some years ago, I think in Hints and Kinks, there was a short write-up on a  
> > solid state version of the noise blanker circuit from one of the Drake  
> > receivers, possibly the R4.  
>  
> Real dumb question, how does a noise blanker work? I read a sketchy  
> explanation a few years back but it didn't explain it to well. Please  
> elighthen this questioning ham. 8-)

Hi Jeff,

Do you ever listen to the W6CX repeater? I call you every time I'm in  
the Diablo Valley, but I mostly yack with W6IBD and K6POU...

Anyway....

Noise blankers are usually a combination of high pass filter and amplifier, sometimes called a 'noise amplifier', which is designed to selectively increase noise pulses (which are of a higher frequency content than desired signals and short in duration). When the noise pulses exceed a threshold, they activate a switch which cuts out the signal briefly.

There are audio derived noise blankers like this, but they are almost always less effectively than a RF-derived blanker. In particular, a noise pulse will excite a narrow filter (like the crystal IF filters in most radios) which effectively lengthens the noise pulse, so a good design will do noise blanking before the IF filters.

OK, qrp-l, anything I left out or got wrong? ;-)

Dana K6JQ  
Dana@Source.Net

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: Raymond.Anderson@Eng.Sun.COM (Ray Anderson)  
Subject: [18110] Re: Noise blanker  
Message-ID: <199704232249.PAA02756@radium.eng.sun.com>

jeffj@crl.com asked:

>  
> Real dumb question, how does a noise blanker work? I read a sketchy  
> explanation a few years back but it didn't explain it to well. Please  
> enlighten this questioning ham. 8-)  
>  
> Jeff  
>  
>

Here is a real simplistic explanation of how a noise blanker works:

The blanker circuitry consists of a rather broadband receiver tuned to a low vhf frequency where there is a high amplitude of static noise but not too many signals from transmitters. (somewhere in the 25 to 35 MHz region is common).

The receiver is designed to respond quickly to impulse type noise (static, ignition noise etc.). It detects the noise and creates a short control pulse whose duration is about equal to the detected noise pulse. This control signal is used to gate off your main receiver for the duration of the detected noise pulse.

Various noise blankers accomplish this with varying degrees of effectiveness. It depends on the AGC characteristics of the noise receiver, the frequency the noise receiver is tuned to, its bandwidth, and numerous other factors like whether your main receiver is gated in an audio stage, an IF stage, what your main receiver's AGC characteristics are etc.

As you can see it can be a complex topic, but hopefully I've explained it well enough to give you an idea of the basic theory of operation.

72, Ray WB6TPU  
raymonda@radium.eng.sun.com

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: kreinbd@ccgate.dl.nec.com (David Kreinberg)  
Subject: [18083] Re: QRPTTF Site

Cam:

My guess is "Three Mile Island", near Middletown, PA.

I was living there when it happened. Scarey stuff.

Hey, maybe that's what's wrong with me today???

Have fun

73 de Dave NR3E/5

----- Reply Separator -----  
Subject: QRPTTF Site  
Author: CBAILEY@PAMDT.ANG.AF.MIL at smtpink-dl  
From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: Chris Cartwright <ccart@dns.vidtel.com>  
Subject: [18085] Re: QRPTTF Site  
Message-ID: <Pine.LNX.3.93.970423114957.621J-1000000@dns.vidtel.com>

On Wed, 23 Apr 1997, David Kreinberg wrote:

> My guess is "Three Mile Island", near Middletown, PA.  
> I was living there when it happened. Scarey stuff.

Seconded! And I lived about 11 miles from "ground zero", when it happened, you'd think with all that exposure I'd be able to power my rigs without a battery. And seeing as it is and Island does it have and IOTA #? Maybe some of us "survivors" could mount an expedition there for some up coming event.

```
-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --
-- Phone 301.990.0735 N3XRV QRP-L #655 | ccart@erols.com --
-- QRP WAS 14/8 (w/c) QRP-ARCI #9271 | http://dns.vidtel.com/~ccart --
-- WIMPS Q's=00 30M=00 17M=00 12M=00 STATES=00/00/00 DX=00/00/00 QSL's=00 --
```

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: Roger Hightower <n7kt@dancris.com>  
Subject: [18088] Re: QRPTTF Site  
Message-ID: <335E4A42.4F3A@dancris.com>

Three Mile Island?

--

72/73 de Roger N7KT n7kt@dancris.com Mesa, AZ Grid DM43cj  
NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: CBAILEY@PAMDT.ANG.AF.MIL  
Subject: [18100] Re: QRPTTF Site?  
Message-ID: <heH8+r2bLnB@PAMDT.ANG.AF.MIL>

You folks are just too smart.  
So far 7 guessed correct.  
One wrong guess was a flood. I would not want to be at this site during Hurricane Agnes in 1973.  
Some of you lived around here in 1979.....How come you moved after that??????? I'm still normal!  
I'm hoping for ionized enhanced QRP sigs!

72, kt3a

From owner-qrp-l@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: DYARNES@aol.com  
Subject: [18065] Re:QST W1AW Receiver  
Message-ID: <970423090315\_1650910946@emout01.mail.aol.com>

Without glasses when I glanced at that article I thought I read a WWV receiver--WITH GLASSES I see it is a W1AW receiver. I still want to build it. Thanks to all for the hints on finding the crystal. Mouser is temporarily out, but due to be back in stock shortly.

72 de David W7AQK

From owner-qrp-1@Lehigh.EDU Wed Apr 23 18:03:58 1997  
From: Raventhorne <jelder@ix.netcom.com>  
Subject: [18059] Re: WAAAAH0000!! Now I can be a WIMP!  
Message-ID: <2.2.16.19970423220528.4f871104@popd.ix.netcom.com>

At 12:46 PM 4/19/1997 -0400, Chris Cartwright wrote:  
>Just wanted to thanks all the folks that offered well wishes on my Upgrade  
>to /AA. As of noon today I can finally be a wimp!

Hurrah!!!! Glad you got your ticket to the WARC's!

72,

John  
King Of 6 Tiny States  
@~~~~~  
@ John Elder, K06TS - King Of 6 Tiny States, ex: KD6HSK, N5FFH, WB6UWL, WN6UWL  
@~~~~~